

AMENDMENTS TO THE CLAIMS

In the claims:

1. **(Currently Amended)** A method of producing a flowable composition that sets into a calcium phosphate containing product, said method comprising:
combining:
 - (a) a setting fluid;
 - (b) dry reactants comprising a calcium source and a phosphate source; and
 - (c) a water-soluble contrast agent **that is incorporated into said calcium phosphate product;**
in a ratio sufficient to produce said flowable material.
2. **(Original)** The method according to Claim 1, wherein said setting fluid comprises said water-soluble contrast agent.
3. **(Original)** The method according to Claim 1, wherein said dry reactants comprise said water-soluble contrast agent.
4. **(Original)** The method according to Claim 1, wherein said water-soluble contrast agent comprises a salt of a radio-opaque element.
5. **(Original)** The method according to Claim 4, wherein said radio-opaque element has a radio-opacity that differs from calcium.
6. **(Original)** The method according to Claim 4, wherein said radio-opaque element is one that is incorporated into a calcium phosphate apatite structure of said calcium phosphate containing product.

7. (Original) The method according to Claim 4, wherein said radio-opaque element is chosen from barium, oxalate, zirconium, tantalum and tungsten.

8. (Original) The method according to Claim 7, wherein said radio-opaque element is barium.

9. (Original) The method according to Claim 8, wherein said salt of said radio-opaque element is barium chloride.

10. **(Currently Amended)** The method according to Claim 1, wherein said ratio of said dry reactant to setting fluid ratio ranges from about 0.2:1 to 0.7:1.

11. (Original) The method according to Claim 10, wherein said flowable composition is a paste.

12. (Original) The method according to claim 1, wherein said setting fluid is a solution of a soluble silicate.

13. (Original) The method according to Claim 1, wherein said flowable composition sets into said calcium phosphate containing product in a period of time ranging from about 5 to 10 minutes.

14. (Original) The method according to Claim 1, wherein said calcium phosphate containing product has a compressive strength ranging from about 25 to 100 MPa.

15. (Original) A method of producing a paste that sets into a calcium phosphate containing product, said method comprising:

(a) combining:

(i) dry reactants comprising a calcium source and a phosphate source;

- (ii) a setting fluid; and
 - (iii) a water-soluble barium salt;
- wherein said dry reactants, setting fluid and water-soluble barium salt are combined in a ratio sufficient to provide for said paste; and
- (b) mixing said combined reactants and setting fluid for a sufficient period of time to produce a paste capable of setting into a calcium phosphate containing product.

16. (Original) The method according to Claim 15, wherein said setting fluid comprises said water-soluble barium salt.

17. (Original) The method according to Claim 15, wherein said dry reactants comprise said water-soluble barium salt.

18. (Original) The method according to Claim 15, wherein said water-soluble barium salt is barium chloride.

19. (Original) The method according to claim 15, wherein said setting fluid is a solution of a soluble silicate.

20. (Original) The method according to Claim 15, wherein both said setting fluid and dry reactants comprise said water-soluble barium salt.

21. (Original) The method according to Claim 15, wherein said flowable composition sets into said calcium phosphate containing product in a period of time ranging from about 5 to 10 minutes.

22. (Original) The method according to Claim 15, wherein said calcium phosphate containing product has a compressive strength ranging from about 25 to 100 MPa.

23. (Original) A flowable composition that sets into a calcium phosphate containing product, wherein said composition is produced by the method according to Claim 1.

24. (Withdrawn) A method of repairing a hard tissue defect, said method comprising:

applying to the site of said defect a flowable composition that sets into a calcium phosphate containing product, wherein said composition is produced by the method according to Claim 1.

25. (Currently Amended) A kit for use in a preparing a flowable composition that sets in an in vivo fluid environment into a calcium phosphate product, said kit comprising:

- (a) dry reactants comprising a calcium source and a phosphate source;
- (b) a setting fluid or components for producing the same; and
- (c) a water-soluble contrast agent **that is incorporated into said calcium phosphate product.**

26. (Currently Amended) A packaged calcium phosphate cement, said packaged cement comprising:

a tubular element separated into a first compartment and at least one additional compartment by a removable barrier;

- (i) dry reactants comprising a source of calcium and phosphate present in said first compartment;
- (ii) a setting fluid or components thereof present in said at least one additional compartment; and
- (iii) a water-soluble contrast agent **that is incorporated into a calcium phosphate product produced upon combination of said dry reactants and setting fluid, wherein is water-soluble contrast agent is** present in either said

first compartment, said at least one additional compartment or in a second additional compartment[[:]].

27. (Original) The packaged calcium phosphate cement according to Claim 26, wherein said removable barrier is a clip.

28. (Original) The packaged calcium phosphate cement according to Claim 26, wherein said removable barrier is a frangible barrier.

29. (Original) The method according to claim 26, wherein said setting fluid is a solution of a soluble silicate.